AMENDMENTS TO THE CLAIMS

1. (Previously presented) A vessel comprising:

a. an inlet;

b. an outlet;

b1. an interior volume in fluid communication with the inlet and outlet, and comprising a wall with an opening therein;

c. a cover having a periphery and adapted to close the opening in the wall of the interior volume; and

d. a cap assembly surrounding at least a portion of the periphery and comprising a ledge disposed between the cover and the wall, wherein the cap assembly is adapted so that rotation of the cap assembly forces the cover against the opening, sealing it, and counterrotation of the cap assembly engages the ledge against the periphery of the cover, and thereby forces the cover away from the opening, unsealing it, wherein both forces are applied principally at the periphery of the cover.

2. (Original) A vessel according to claim 1 in which the cover comprises a flange forming the periphery.

3. (Original) A vessel according to claim 2 in which the cover further comprises a central region bounded by the flange and a first wall extending from the central region.

4. (Original) A vessel according to claim 3 further comprising a base and a second wall extending from the base.

5. (Original) A vessel according to claim 1 in which the cap assembly comprises:

a. a ring; and

b. a cap connected to or integrally formed with the ring.

6. (Original) A vessel according to claim 4 in which the cap assembly comprises a jack ring and a cap connected to or integrally formed with the jack ring, the jack ring having threads complementary to the threads of the second wall to permit attachment of the jack ring to the second wall.

7. (Original) A vessel according to claim 6 in which the jack ring and cap are connected together in a manner permitting detachment thereof.

8. (Previously presented) A vessel according to claim 7 further comprising a water-purification or filtration material.

9. (Previously presented) A vessel according to claim 8 in which the cap assembly

comprises:

a. a jack ring defining the ledge; and

b. a cap connected to or integrally formed with the jack ring;

and in which the cover contacts the ledge at least during unscrewing of the jack ring.

10. (Original) A vessel according to claim 1 in which the cover has a ridged upper surface.

11. (Original) A vessel according to claim 1 further comprising a sealing ring and in which (i) the cap assembly comprises a jack ring and (ii) the cover comprises a first wall having a groove adapted to receive the sealing ring such that the sealing ring is accessible immediately for inspection or removal when the cap assembly is removed from the vessel.

12. (Currently amended) A vessel through which pressurized water flows, the vessel comprising:

a. a base;

b. a generally-cylindrical wall extending upward from the base and having an interior surface and a threaded exterior surface;

c. a jack ring defining an interior surface having threads adapted to engage the threads of the exterior surface of the generally-cylindrical wall and comprising a ledge;

d. a cap connected to or integrally formed with the jack ring;

e. a cover comprising a peripheral flanged portion, a central portion, and a wall extending from the central portion, the peripheral flanged portion sandwiched between the cap and jack ring in contact with the ledge so that loading of the cover occurs principally by contact between the peripheral flanged portion and the cap, and so that unloading of the cover occurs principally by contact between the peripheral flanged portion and the ledge ~~forcing~~ lifting the cover away from the wall, the wall friction-fitted into contact with the generally-cylindrical wall when the threads of the jack ring engage the threads of the generally-cylindrical wall, and the wall defining a groove;

f. an o-ring positioned in the groove; and

g. water-purification material contained within the generally-cylindrical wall.

13. (Previously presented) A vessel according to claim 4 in which the second wall is tapered.